THE TIMES DAILY MAGAZINE PAGE

Spinning and Weaving Known Almost As Far Back As Day of Eve

National Museum Exhibit Teaches Lesson In Development of Textile Industry-Luther Hooper Explains Prehistoric Methods of Weaving.

The spindle and the loom, the one for twisting the fiber into thread, and the other for weaving the thread into cloth, are prehistoric and almost universal, says Luther Hooper, who writes for the Smithsonian Institution a historical paper on weaving.

These tools, he says, and the methods of using them, have never been subjected to much variation, whether invented by prehistoric man, skillful weavers of the ancient world, or ingenious craftsmen of the primitive tribes of today. It is not only in elementary forms of weaving the essential principles of the most modern spinning and weaving machinery are identical with those used in the most ancient times, and the complicated textile machinery of today is a natural development from that used by primitive weavers of all time.

Mr. Hooper demonstrates the principles of the primitive loom and spindle, and traces their gradual evolution into the wonderful, but still far from perfect, mechanisms of the modern machines actuated by steam power. He also indicates the lines along which texthe machinery of the future is likely to be improved.

Prehistoric Textiles.

Prehistoric examples of the weaver's art are extremely rare, owing to the perishable nature of the materials of which they are composed but these mereat shreds of textile fabrics show unmistakably that the art of the loom, as well as that of the spindle and needle, was understood and such and the composer of the shindle of the sulful can be made to govern all the operations of the loom except throwing the shuttle and operating its own actuating loom, as well as that of the spindle and needle, was understood and such and underly of yarn of all kinds required the evelopment of the spindle and the evelopment for the textlle industries of texts in the methods and invented by seam power. He also indicates the lines along which textle industries of the materials of which a weaver and the complete of the materials of which a weaver and the complete of the materials of which and the complete of the materials of which ane

With an oblong board, two sticks and a piece of string, the suthor describes the construction of a simple loon, typical of all looms. The string is wound about the board, over the ends. wound about the board, over the ends, nisking a series of vertical cords slightly separated, and the twe sticks are inserted between alternative cords at one end. The threads or cords which cross between the two sticks are separated into a well-ordered warp, which is easily lept free from entanglement, and through the alternate space of which the shuttle with its thread or arring forms the woof or weft in an over-and-under weave.

Distaff of 500 B. C.

Hooper describes spinning by hand with a distaff and spindle, used previous to 500 B. C., the filer, bobbin and the spindle of Leonardo da Vinci, dustry.

mereat shreds of textile fabrics show unmistakably that the art of the loom, as well as that of the spindle and needle, was understood and successfully practiced in what has been called "the night of time."

Among the 'remains of one of the earliest of the lake dwellings of Switzerland, discovered in the bed of the lake at Robenhausen, bundles of raw fax fiber, fine and coarse linen threads, twisted strings of various sizes, thick ropes, netted and knitted fabrics, and fragments of loom-woven linen cloth were found.

There were also spinning whoris and loom weights of stone and earthenware, and one or two fragments of wooden wheels and frames, which were puspibly the remains of thread-twisting machines and simple looms, all of which remains and weaves and simple looms, all of which remains and wery little power is required to manner.

With an oblong board, two sticks and twinted ways that the hand shuttle, for work says th

mays that the hand shuttle, for work none too wide for it, and the perforate comber board will be retained, that combor board will be retained, that some arrangement similar to that in the circular loom will be effected, affithat the Jacquard machine will be superseded by an electro-magnetic arrangement. With these retentions and improvements, he feels that the master weaver of the future will not only produce webs as exquisite as those of the hest weavers of the past, but will carrethe art forward to a higher degree of perfection than has yet been attained. The National Museum possesses many models and important textile machines arranged in a series from the earnest apinning and weaving appliances to the modern loom, which supplements the article well, and itself teaches a lesson in the development of the textile industry.

BOOK REVIEWS

the same author describing a winter is Washington, as experienced by a young

HETH ANNE HERSELF, By Pemberton Ginther, Publishers, Penn Publishing Company, Philadelphia, Price, IL. A story for girls describing the life of an artist daughter.

HELEN AND THE FIFTH COUSIN. By light Bradford Glichrist. Fublishers. Penn Publishing Company, Philadelphia. Relating the adventures and the mis-adventures of Helen and the Find-Out Clue, Fifth in the series.

YOUNG HILDA AT THE WARS. By Ar-thur H. Glesson. Publishers. Frederick A. Stokes Company. Price, 31.. True stories of the adventures of a young lows girl in a dressing station

Seen In The Shops

OST men object loudly and carneally to any presents selected by a woman. They are notoriously opposed to feminine taste in hosiery-for masculine wear-and ties, to say nothing of cigars. No mafe, not even the grumplest, could resist the attraction of a shiny little silver ash tray that is neither too large to occupy much room nor too ornate for every-

day use. This is priced at \$3.

Rather different from the severity of the silver ash tray is one of pink crystal or marble or something else that seems to be overspread with the most charming blush nature ever bestowed. Perkily regarding phenomenon is a wee bulldog of pugnacious mien. This tray is \$2.

Cigarette sets-for ladica only-of cloisonne enamel, include severa fresh amber mouthpieces. The sets cost \$5 and come in dainty moire boxes, ready for the dressing table The enamel comes in the most ex-quisite colorings—a rich turquoise, deen rose, warm lavender and sunny

Sellow. Every conceivable fitting for the bureau or dressing table has been developed in the enamel or with a generous touch of it. There is a waddly powder jar and a substantial perfume bottle, to say nothing of a tay bell and all manner of wee rouge boxes.

Telephone Main 3200 and ask "The Shapper" for information civing the names of stops which carry the ar-ficles referred to in these columns. Mail inquiries should enclose a straight self-addressed envelope or postal card for reply.

FAITH PALMER IN WASHINGTON. By in Belgium, where the wounded were Lazelle T. Wooliey. Publishers, Penn brought for first aid. Publishing Company, Philadelphia, Price.

Publishing Company, Polladelphia. Price. 31.

Fifth in the Faith Paimer series by he same author describing a winter in he same author describing a winter in Vashington, as experienced by a young.

An endeal of the explain war and God's

BABBLE O' GREEN PIELDS. By Mark Wayne Williams. Publishers, Sherman, French & Co., Hoston, Price, 31. Collection of poems on divers sub-

WILD POSIES, By John Troland, Publishers, Sherman, French & Co., Boston, Price B.25.

YOUR DREAMS AND MINE. By Chauncey Livingston Willse. Publishers. Sherman, French & Co., Boston. Price. 11, Poems.

THE ART OF SPEECH MAKING. By Na thaniel C. Fowler, fr. Publishers, Bull-& Kleinteich, New York. Price, 59 cents The books of Nathaniel Fowler are The books of Nathaniel Fowler are too well known to need an introduction. This late volume on speechmaking is thoroughly consistent with the practical. Pointed, and helpful tenor which is the characteristic of his other publications. The chapters are more in the way of being personal advice than any attempt to put set forms or standards before the would-be orator.

THE SCOTCH-IRISH IN AMERICA. IN Henry Jones Pord. Publishers The Princeton University Press. Princeton, N. J. Price, E.

systematic treatise devoted to the A systematic freatise devoted to the causes, events, and results of the Ulster immigration to America, together with an appreciation of the Ulster contribution to American nationality. This book tells the story of the Ulster Plantation, and of the influences that formed the character of the people.

THE RETIRED MINISTER, By Joseph B. Hingeley. Publishers, The Abbingdon Fress, New York, Price, B. All Protestants should be integested in this book, which, in setting forth the dependence of the retired minister, brings forcibly to mind the need for some form of pension in behalf of him while alive, and of his widow and orphans after he is dead.

Odd and Interesting Facts. Cranes dance and make bows when ove making.

Camphor-two drops on a toothbrush-

Black dresses turn rusty owing to the chlorine in the dye being acted upon by Charcoal (animal) crushed fine, in

water, is the best antidote for plomaine poisoning. Rose cuttings should be slit one then up from the bottom and a grain of wheat inserted.

Hown and feathers are very bad con

England is several degrees warmer than it was some years ago, owing to better drainings and cultivation.

How the Friendship of Three Women Works For Good of Young People On the Stage

Future Inheritors of Castle Mantle Tell the Story of Miss, Elizabeth Marbury, Elsie De Wolte, and Arne Morgan.

Uplifters All, They Have the Unique Distinction of Standing as Sponsors For Youth and Happiness on the Stage.

By FLORENCE E. YODER. 66 X 7 ELL I just don't know but Miss Marbury and Miss Anne Morgan work together all of the time, and have a home in France at Versailles, and are all reformers, and the best of friends, and what one can't do the other can. I'm not the only girl whom they have put on the theatrical map!"

Miss Helen Clarke, diminutive, and dainty, smiled sweetly and composed-ly, as indeed might why young woman who has been told she was



clever, given a dancing role of

clever. given a dancing role of prominence in a musical comedy which turned out to be a success, and has had her future planned out by someone else, for two years in advance!

As the prolege of Miss Elizabeth Marbury, the producer of "Nobody Home." the musical comedy success which is playing at the Belasco this week, Miss Clarke was appealed to for information concerning the most unusual theatrical clique in existence.

unusual theatrical clique in existence.

The fact that "Nobody Home" was produced, costumed, staged, and press-agented by women lant news any longer, but perhaps the fact that the presentation of this musical show, in exactly the form which it enjoys, is the result of the friendship of three women will be a new and added interest.

Two of these women have been friends for no less than iwenty-seven years, and the three have shared a villa at, Versailles for its years.

They are Miss Elizabeth Marbury, producer: Miss Elizabeth Marbury,

and Miss Anne Morgan, daughter of the late J. Pierpont Morgan, philanthropist.

of the late J. Pierpont Morgan, philanthropist.
Reformers, all!
Miss Morgan may not be said to be actively concerned in the trama itself, but without a doubt it is one who has put many young girls of promise in the way of getting into Miss Marbury's companies.
Miss Elsie De Wolfe makes the scenery, Miss Marbury produces the play (which means that she digs it up, sets it on its feet, brushes its hair, equips it with wholesome girls by way of a chorus, has real music written, and otherwise makes it presentable for public appearance), and Miss Anne Morgan, from all that could be gathered from Miss Clarke, stands in the background with a sort of magic pockethook, which opens automatically when the right kind of a girl with the wrong kind of financial support comes along.
"No wonder they get along," said Miss Clarke nalvely, swinging her feet which did not touch the floor, back and forth as she sat on a chair of moderate height.
"Miss Morgan reforms in one way. Miss Marbury in another, and Miss

Wolfe in still another. They saw use dance first on the Strand roof, and it didn't take a minute for Miss Marhury to talk to me, and then assign me to a part in 'Nobody Home.'

dance first on the Strand roof, and it didn't take a minute for Miss Marhury to talk to me, and then assign me to a part in 'Nobody Home'. 'You see 'Nobody Home' is a musical show with lots of girls in it, but they are not chorus girls. Miss Marbury doesn't call them that. She thinks that they are just as important a part of musical production as the stars, and that they have individuality which should be fostered not squelched by referring to them as a horde, or dressing them as duplicates of one another.

"Now here is where Miss De Wolfe comes in. She thinks in terms of stage decoration, and believes, too, that girls have individuality which should be made use of in their costumes, for technical purposes. She composes the scenery, and works out the scheme of coloring with ever an eye for developing the individual beauty of each girl.

"But as to the friendship of Miss Marbury and Miss De Wolfe. I can't say. Perhaps, Mr. Tod, my dancing partner can tell us."

"Quentin Tod was, therefore, summoned to the meeting, and proved the most satisfactory raconteur, for he knew everything about everybody. "Miss De Wolfe and Miss Morgan met in California twenty-seven years ago," he said obligingly. They have lived together ever since, and are the firmest of friends. Now when they first met, Miss Marbury was agent for all of the French plays which were brought to this country and aponsor for their production.

"She is without doubt one of the greatest publicity experts ever connected with the stage, and

"She is without doubt one of the greatest publicity experts ever connected with the stage, and when she decided to put the twenty-year-old Miss De Wolfe in musical comedy it was as good as assuring her success. About ten years ago Miss De Wolfe left the stage, her last play was "Cynthia," and went seriously into the business of interior decorating.
"She made a great success of this. Meanwhile Miss Marbury was climbing the indeer of fame by means of the theater. A year or two ago she made up her mind to produce a real musical show, a small one, of the Hoyt kind, and to have Miss de Wolfe make the scen-

ery. She had as a business partner F. Ray Comstock, who has made it possible through his acute knowledge of business affairs to make the Marbury-Comstock alliance successful financially. He knows how to make the art of Miss Marbury and Miss De Wolfe, translated into business terms, obtain its full value.

into business terms, obtain its full value.

"Just prior to her first production perhaps Miss Marbury's most notable success was the management of the Castles. When she says that she is going to make Miss Clarke and myself equally famous. I am almost inclined to believe it."

Hereupon the future inheritor of the Castle mantle beamed at his wee partner; and she smiled sedstely back, perusing the meanwhile the pages of Vanity Fair, with a world wise repression in the face of great and acknowledged joy.

Before his association with Miss Marbury Mr. Tod had an envisable and excellent record on the English stage, His first appearance here five years ago was in "Marriage 4 La Carte."

Miss Clarke has never been on

ance here five years ago was in "Marriage A La Carte."

Miss Clarke has never been on the stage before, and is acting in her first show for the first time.

But then and there we have Miss Marbury's whole scheme of work. She doesn't think that young people need to be aged and backed by money, name, and years of experience to get into her shows.

Youth, clean, wholesome, and unspoiled, is what she tries to infuse into her musical comedies. Miss Clarke supplied the writer with a short paragraph from Miss Marbury herself which adequately expresses

DANDRUFF GOES! HAIR GETS THICK, WAVY, BEAUTIFUL

Save your hair! Double its beauty in a few moments. Try this!

Hair stops coming out and every particle of dandruff disappears.

Try as you will after an application of Danderine, you can not find a single trace of dandruff or falling hair and your scalp will not itch, but what will please you meet, will be after a few weeks use when you see new hair, fine and downy at first-yes-but really new hair, srowing all over the scalp.

A little Danderine immediately doubles the beauty of your hair. No difference how dult, faded, brittle and scragsy, just moisten a cloth with Danderine and carefully draw it through your hair, taking one small strand at a time. The effect is immediate and a nazing—your hair will be light, fuffy and way, and have an appearance of abundance; an incomparable bistic, softness and invuriance, the beauty and snimmer of true hair, beath.

ance, the beauty and shimmer of true hair health
Get a E-cent bottle of Knowlton's Danderine from any drug store or tollet counter, and prove that your hair is as pretty and soft as any—that it has been neglected or inhired by careless treatment—that's all.

Danderine is to the hair what fresh showers of rain and sunshine are to vegetation. It goes right to the roots, in izomics and streng hons them. It selliantics, simulately and inte-producing properties cause the hair to grow long, strong and beautiful,—Advt.

a better place of entertainment, a place to which we will look with longing when the day's work is over, and where we cannot go too often."

What the Stage

Machinery and Matrimony. Former Secretary of Agriculture louston was describing at a dinner in Vashington the changes that have come over farming methods, says the Boston

washington the changes that have come over farming methods, says the Boston Post,

"It's an age of machinery today," he said. "The milking machine has succeeded the milkmaid. The phonograph has succeeded the melodeon. The notor plow has succeeded the horse plow.

"There's an appropriate story about a vounty farmer who loved two girls equally—the one slim and petite, the other tall and herculean.

"The young farmer in this dilemma, asked his father's advice. The father, puffing thoughtfully on a Havana—for your modern farmer is too prosperous to smoke domestic cigars—answered:

"There's so much machinery used in farming nowadays, James, that a big, strong wife is hardly needed. I advise you to take the little one; she'll eat less."

HEINZ Tomato Ketchup

will not make tough meats tender, but even the cheaper cuts are made appetizing by its use. One of the 57 133



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Answers To Health Questions

By DR. L. K. HIRSHBERG.

Copyright, 1815, Newspaper Peature Service.) C. J.-Would you please give me some advice in regard to a cold which I get quite frequently? How should I treat it? 2—I am a man of twenty-nine years, and smoke a great deal; in fact, I have had this habit from the time I were dresses. Will you please tell me how I might rid myself of this tell me how I might rid myself of this habit now?

Kindly explain your cold more definitely, whether it is in the head or chest, and I will be glad to give you the asdstance you may require. 2-Swallow one or two 1-200-grain of sulphate of strichnine tablets every three hours. These tablets are bitter and when chewed take away the craving. Glycerite of tannin should be applied to

Mrs. N. N.-I have been troubled with a terrific ltching from foot to knee and also on my hands. Sometimes cold wa-ter relieves me. Will you kindly pre-scribe for me?

Apply the following to the affected parts each right or a couple of times a day if very severe: Calamine, two and a half drams; zinc oxide, two drams glycerins, two drams; phenol, one-half ounce: lim; water and rosewater enough to make three ounces.

H. B .- What will cure a cold in the

Avoid drafts as much as possible, take quinine and a hot lemonade before re-string; also a hot bath; go to bed at 7 o clock each night until the cold wears

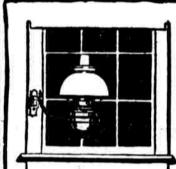
PERSONAL ADVICE.

Readers desiring advice should

Readers desiring advice should remember:

1. To address inquiries to Dr. L. K. Hirshberg, care of The Washington Times.

2. To enclose a stamped and addressed envelope if a personal reply is desired.



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Mica Axle Grease If your dealer does not carry these, write to our nearest station.

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Famous Love Affairs

PETRARCH AND LAURA. A taste Francesco Petrarch had For dialects, and leeks, and verses. Though Laura was his best-known fad.
But Laura loved her Husband (Curses:)

Through twenty long and tragic years
That burned Francesco's soul like acid—
(He melted several Alps with tears)—
Laura remained at home . . . quite placid.

She loved her Husband, Laura did: Please fix that vital fact securely. When Petrarch called her "Heaven-ly kid!" She'd binsh and drop her eyes de-murely.

Not that he ever saw her more
Than once or twice in any quarter.
Food took his time, dialects, and
war
For months she's think he'd quit
it, sorter. Twas A. D. 1331 He studied Greck (historians say

And sang, "She warms me like the And boned up P. Ovidius Naso. I think 'twas 13.2 He bearned the anecch of Kurda and confer. And flinked with love and Tubean

Penned ti ree car good to her optice.

A similar remark about her.

From thirteen-twenty-nine to thirt-Een-hundred-forty-eight she never (Though he septennial tried to flirt) Smiled once upon his bold en-deavor.

eleven. le Petrarch wrote pome after Sonnets three-hundred-twenty-seven!

She perished: (1345).

"Alas." he sighed. "I never kissed her!"

H's songets, onward from that date.

Lead one to think he somehow missed her.

She died, and Earth held little more: Vain all its garlie, gauds and laughter! He placed. In 1374. Not thirty years, he followed after.

-New York Evening Sun.

In 1228 he wrote, "I cannot live a year without her!" In 1346 I note

She leved her Husband. And her Home. loved her Babes. She had

And all white-toothed Italia smiled, Commenting pleasantly upon it— "Dear Laura has another child!" "Hast lamped Petrurco's latest sonnet?"

By Venus, in those Southern climes, How muck and recklers is love's fashion: In orbite stilled and times We will and learn to curb our